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16 November 1966

MEMORANDUM FOR: Chief, Development Staff

SUBJECT : Potential work areas for [ ]

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The following topics are suggested for possible inclusion in a follow-on [ ] effort:

1. Psychophysical investigation of mensuration performance - Many variables such as sun angle, obliquity, resolution, pointer type, magnification, illumination intensity, individual operator differences, and stereoscopic presentations have been left largely unexplored by [ ] first mensuration study. Their separate and interactive influences may be significant and quantifiable as efforts on mensural output.

[ ] is particularly well suited to the performance of this task since it has worked closely with TID personnel and methodologies in the past. Real [ ] material and practicing NPIC photogrammetrists should be utilized for experimentation whenever possible.

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2. Ground resolution studies - The present P. I. Performance and Techniques Study is only scratching the surface of the overall resolution question. The current missile site effort could be easily expanded to include a broader range of targetry, perhaps through the use of Project [ ] materials. Included in this investigation should be a study of collection system resolution break points for various intelligence requirements and a thorough definition of the effects on image interpretation of unequal contralateral resolutions in a stereo system.

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3. Sun angle study - Controlled [ ] model photography is already available in OSA for a psychophysical assessment of the influence of sun angle on image interpretability. Once basic principles are

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defined in this hypothetical use, real [ ] material should be used to verify and amplify the results for specific NPIC target categories.

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4. Updating of the May, 1963 document, "An Analysis of the Work of Photo Interpreters in CIA/FID (NPIC)" - [ ] participated in the original preparation of this valuable report 3 1/2 years ago and has been intimately involved with NPIC ever since. This position uniquely qualifies [ ] to perform this task which would document recent procedural changes in NPIC's interpretation activities.

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The following areas are possible additional sources of work for [ ] but are felt to be better reserved for the [ ] contract:

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Human Visual Integration - A follow-on to the [ ] effort is required, but because of possible equipment misregistration considerations, [ ] may provide more satisfactory service in this area than [ ]

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Collateral and social influences on interpreter performance - This area is felt to encompass a vast amount of psychological territory and should probably be tested under the large, long-range [ ] effort.

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Interpreter motivation - ditto

Equipment training and testing - This realm is also one of long-range implications and should certainly be contemplated by [ ] perhaps with [ ] help, might make a preliminary dent in the design of programmed instructions and proficiency maintenance reviews for various NPIC equipment.

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[ ]  
Development Staff, TDS

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